

-- 105. (Amended) A method of treating an artery, comprising the steps of:

enlarging the lumen size of a plaque-ridden segment of an artery;

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placing a vascular lining at the lumen enlarged segment so that the lining covers at least some of the lumen enlarged segment. --

A marked-up copy of Claim 105 appears immediately below:

-- 105. (Amended) A method of treating an artery, comprising the steps of:

enlarging the lumen size of a plaque-ridden segment of an artery;

placing a vascular lining at the lumen enlarged segment so that the lining covers at least some of the lumen enlarged segment. --

Please add the following claims:

-- 116. In combination:

a plaque-treating instrument for insertion into a vessel through an access site and along the vessel to a desired location and having means for engaging and removing plaque from the remaining wall of the vessel to thereby treat stenosis by enlarging the size of the flow path comprising the lumen of the vessel;

a hollowing lining for contiguous placement against at least some of the treated arterial wall defining the enlarged lumen;

a lining carrier for insertion of the lining through the access site and along the vessel to the treated location and comprising means for releasably holding and selectively deploying the lining into contiguous relation with the remaining wall of the vessel to thereby alleviate restenosis, the carrier being removed from the vessel after lining deployment. --

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-- 117. The combination of Claim 116 wherein the plaque-treating instrument comprises one or more of the following: a cutting device including but not limited to severing, grinding, chipping, abrading, drilling and rotating blade devices, a dissecting ring, a prying device, a laser device and an ultrasonic device. --

-- 118. The combination of Claim 117 wherein the cutting device comprises one or more of a fixed diameter and an expandable cutter. --

-- 119. The combination of Claim 116 wherein the plaque-treating instrument comprises one of an endarterectomy instrument by which plaque and arterial wall tissue are removed from the remaining wall of the vessel and an artherectomy instrument by which plaque is removed from the remaining wall of the vessel. --

-- 120. The combination of Claim 117 wherein the dissecting ring comprises at least one of a manually manipulatable ring and a dynamic ring. --

-- 121. The combination of Claim 116 wherein the lining comprises at least one of a generally annularly-extending lining covering at least some of the remaining wall of the vessel, a lining comprising at least some ingrowth material, a Y configuration lining, and a coating. --

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-- 122. The combination of Claim 116 further comprising a radially expandable stent disposed internal of the tubular lining. --

-- 123. The combination of Claim 116 wherein the lining carrier comprises at least one of a mandrel, a balloon catheter and a clamping device. --

-- 124. The combination of Claim 116 wherein the lining carrier comprising means releasably holding the lining during insertion and placement within the vessel. --

-- 125. The combination of Claim 124 wherein the lining is folded to reduce its initial diameter and wherein the releasably holding means retains the lining in its folded condition during insertion and location of the lining within the vessel. --

-- 126. The combination of Claim 124 wherein the releasible holding means comprises at least one of expansion pressure, a clamp, and at least one suture. --

-- 127. The combination of Claim 116 further comprising an occlusion reduction instrument for introduction into the vessel through the access site and comprising means for reducing totally or partially occluding plaque within the vessel to accommodate use of the plaque treating instrument. --

-- 128. The combination of Claim 116 wherein the occlusion reduction instrument comprises at least one of a guidewire, a dynamic wireguide, a dynamic disrupter and a coring catheter. --

-- 129. The combination of Claim 116 further comprising a hollow tube disposed in the access site. --

-- 130. The combination of Claim 129 wherein a tube comprises at least one of a tube comprising a solid wall and a peel-away sheath. --

-- 131. The combination of Claim 116 further comprising an angioplasty balloon for dilating the plaque within the lumen of the vessel before insertion of the plaque treating instrument. --

-- 132. The combination of Claim 116 further comprising a lining securing means holding the lining securely against the remaining wall of the vessel. --

-- 133. The combination of Claim 132 wherein the lining securing means comprises at least one of at least one stent within the lining, at least one suture between the lining and the remaining wall and at least one staple between the lining and the remaining wall. --

-- 134. In combination:

a vessel entry instrument comprising means creating an access entry path into a vessel; a plaque-treating instrument for insertion into a vessel through the access entry path and along the vessel to a desired location and having means for engaging and removing plaque from the remaining wall of the vessel to thereby treat stenosis by enlarging the size of the flow path comprising the lumen of the vessel;

a hollow lining for contiguous placement against at least some of the treated arterial wall defining the enlarged lumen;

a lining carrier for insertion of the lining through the access entry path and along the vessel to the treated location and comprising means for releasibly holding and selectively deploying the lining into contiguous relation with the remaining wall of the vessel to thereby alleviate restenosis, the carrier being removed from the vessel after lining deployment. --

-- 135. The combination of Claim 134 wherein the vessel entry instrument comprises at least one of a needle, a scalpel, a guide wire and a peel away sheath. --